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Software Development 1

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## Lab 8 UML Diagrams

## 11.1

# Geometric Object

color: Stringfilled: booleandateCreated: Date

- + getColor(): String
- + setColor(String color): void
- + isFilled(): boolean
- + setFilled(boolean filled): void
- + getDateCreated(): Date
- + setDateCreated(Date dateCreated): void
- + toString(): String
  + getArea(): double
- + getPerimeter(): double



# Triangle

side1: doubleside2: doubleside3: double

+ getArea(): double

+ getPerimeter(): double

+ toString(): String

#### Account

- Id: int
- Balance: double
- annualInterestRate: double
- dateCreated: Date
- + withdraw(int withdrawal): void
- + deposit(int deposit): void
- + getId(): int
- + getBalance(): double
- + getAnnualInterestRate(): double
- + getMonthlyInterestRate(): double
- + getMonthlyInterest(): double
- + getDateCreated(): Date
- + setId(int id): void
- + setBalance(double balance): void
- + setAnnualInterestRate(double annualInterestRate): void

# CheckingAccount

- overdraftLimit: int
- + withdraw(int withdrawal): void

## SavingsAccount

- \_
- + withdraw(int withdrawal): void

### 11.5

### Course

- courseName: String
- students: ArrayList<String>
- numberOfStudents: int
- + addStudent(String student): void
- + getStudents(): ArrayList<String>
- + getNumberOfStudents(): int
- + getCourseName(): String
- + dropStudent(String student): void
- + clear(): void